AEE/KSD/SBR/206/15-16
dt - 28/3/16

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

No. 1 & Final Bill Date.....2016

Zone:**BBMP,Yalahanka** Division:**BBMP, Byatarayanapura** Sub-Division:**BBMP, Kodigehalli**

Bill Received No. Dated Divisional / Sub-Divisional Cash Book Voucher No.....Dated.....

Job Code: 008-15-000076

Schedule Docket No. Head of Account: P1802 Est.Cost: Rs.18.00 Lakhs D.R.NO.:

Name of Work : Drilling of Borewells and Providing Pump and Motors in Kodigehalli extension, Hanumaiah badavane, Behind sai baba temple and Sahakaranagara in Ward No. 8 , Kodigehalli sub division

AS No.: CE/YNK/BBMP/222/14-15 dtd 23.03.2015 TS No.: EE/BTP/BBMP/402/14-15 dtd 23.03.2015

Name of Contractor and Full Address: Sri. Murali Mohan, Bangalore

Reference to Agreement No. EE/BTP/AG/26 /14-15 Date: 20.04.2015

Certified that the measurements were taken by me on: 04.01.2016 **to 24.02.2016** and recorded of Pages 258314 to 258322 of measurement Book No. 2584/2014-15 and that work is satisfactorily executed.

Murali Mohan V.

Contractor 24/02/2016 **Officer-in-charge of work**

Certified that measurement were taken by me on ../../2015 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Accont have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪ
ಬೆಂಗಳೂರು - 560092

		Amount
1)	Total value of work done or supplies made as per account within	
2)	Deduct amount to be held in reserve being.....Percent Rs.....	
3)	" Balance	
4)	Deduct Payment:	
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No..... adjusted towards cash advance recovery of	
	b) Payments cost store or other material supplied. Now made recovery of amount creditable to this /other work	
	Amount paid on this bill Cheque/Cash.	
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated .....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within	
9)	Value of Government materials supplied.	
	Total amount adjusted	
	Contractor's Signature Murali Mohan V.	

AS.

1st & Final Bill — 1773153=00
IT — 17732=00
VAT — 70926=00
LWF — 17732=00
CBF — 1773=00
Total ded. — 108163=00
16,64,990=00

Received Rs.....(in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

(For use in the Office)

Witness
1
2

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Murali Mohan V.
1773153=00
108163=00
1664990=00

Stamp

Executive Engineer

H.V.

31/5/16

Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate Description	Unit	Previous
			Qty
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its quality & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Each BW	
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 0 to 50 m	Rmtr	
3	50 to 100 m	Rmtr	
4	100 to 150 m	Rmtr	
5	150 to 200 m	Rmtr	
6	200 to 250 m	Rmtr	
7	250 to 300 m	Rmtr	
8	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Rmtr	
9	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work	Rmtr	
10	Providing and fixing 160mm Borewell Cap with clamp Set H/D,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	
11	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 10.00 HP 20 stage.with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 12.50 HP 20 stage	No	

Measurement	Present Measurement			Total Upto Date	
Cost	Qty	Rate Rs. P.	Amount	Qty	Cost
	3	1869.01	5607.00	2	5607.00
	150	303.89	45584.00	100	45584.00
	150	397.24	59586.00	100	59586.00
	150	441.93	66290.00	100	66290.00
	150	466.76	70014.00	100	70014.00
	150	540.25	81038.00	100	81038.00
	139	578.98	80478.00	100	80478.00
	207	1315.86	272383.00	140	272383.00
	54	749.26	40460.00	36	40460.00
	3	99.31	298.00	2	298.00
	3	55812.22	167437.00	2	167437.00

12	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark etc., complete and as per the directions of the Engineer-in-charge of the work	Rmtr	
13	Heavy Duty Collar 50 mm dia	Nos	
14	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	
15	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	
16	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	
17	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	
18	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	
19	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	
20	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	
21	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	

	717	372.41	267018.00	500	267018.00
	120	129.1	15492.00	82	15492.00
	1474	149.96	221041.00	1040	221041.00
	3	2979.3	8938.00	2	8938.00
	3	283.03	849.00	2	849.00
	90	148.97	13407.00	60	13407.00
	90	7.94	715.00	60	715.00
	75	59.59	4469.00	50	4469.00
	12	238.34	2860.00	8	2860.00
	3	258.21	775.00	2	775.00

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ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪ
ಬೆಂಗಳೂರು – 560092

22	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	
23	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	
24	Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	
25	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	
26	SSupplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour etc., complete and as per the directions of the Engineer-in-charge of the work	No	
27	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	
28	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	
29	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Sq.Cm	
30	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset 10HP to 20 HP Star Delta Starter SERDED Rate with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	

	3	1936.55	5810.00	2	5810.00
	18	99.4	1789.00	12	1789.00
	3	1569.92	4710.00	2	4710.00
	3	226.33	679.00	2	679.00
	3	79.45	238.00	8	238.00
	3	347.59	1043.00	2	1043.00
	3	993.8	2981.00	2	2981.00
	183600	0.33	60588.00	46800	60588.00
	3	10934	32802.00	2	32802.00

31	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	
32	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 75mm Dia 6 KSC	Rmtr	
33	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrswith all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	
34	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Each	
35	Bescom deposit paid to Bangalore Electric supply board for me following electric connecting a) Locations:Lottegollahalli, Receipt No.66672, RR.No.CC$P3978, Bescom Receipt No.256710788284, dated:5.12.15 (Rs.4000+600+94X6300) Bescom Receipt No.545039481777, dt.27.11.15 b) Location:Muneshwara Temple Road LT3 phan type Receipt No.66671, dt.10.12.15 BESCOM RR No.C4P3979, Receipt No.545039474070, Dt.8.12.15 Bescom Receipt No.256710748976 dt.27.11.15		
	Total		

CRTIFICATE:

1. Certified that the above work done satisfactory and no materials issued from Departmentally

	281.25	186.7	52509.00	189	52509.00
	625	155.93	97456.00	420	97456.00
	281.25	60.58	17038.00	189	17038.00
	15	2107.28	31609.00	10	31609.00
			39162.00		39162.00
			1773153.00		**1773153.00**

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ಯಲಹಂಕ ವಲಯ, ಬೆ
ಬೆಂಗಳೂರು - 560097